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AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph beginning on page 1, line 12, with the following amended

paragraph:

As chlorofluorocarbon (CFC), a refrigerant used for a refrigerator, an air-conditioner or

the like, has been known as a source material damaging an ozone layer of the stratosphere,

researches-research on a substitute refrigerant is being actively conducted.

Please replace the paragraph beginning on page 2, line 4, with the following amended

paragraph:

Among the natural refrigerants, hydrocarbon comprises only carbon and hydrogen and

includes R50 (methane), R170 (ethane), R290 (propane), R600 (butane), R600a

(isobuteneisobutane), R1270 (propylene) or the like. Hydrocarbon is not toxic and chemically

stable and especially exhibits an appropriate solubility in a mineral oil.

Please replace the paragraph beginning on page 2, line 18, with the following amended

paragraph:

However, with all those advantages, isobutene-isobutane (R600a) is hardly combined

with refrigerant oil currently used for a refrigerating system due to its chemical and electrical

properties. Therefore, a refrigerant oil suitable for isobutene-isobutane (R600a) is in need of

development. Especially, necessity of a refrigerant oil usable for a reciprocating compressor for

compressing isobutene isobutane (R600a) comes to the front.

Please replace the paragraph beginning on page 9, line 18, with the following amended

paragraph:

As the natural refrigerant, an organic compound refrigerant consisting of only carbon and

hydrogen is mainly used. Among organic compound refrigerants, hydrocarbon, consisting of

only carbon and hydrogen, has no toxicity, is chemically stable, has a zero ozone depletion

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potential and a very low global warming index. Hydrocarbon includes R50 (methane), R170

(ethane), R290 (propane), R600 (butane), R600a (isobutene isobutane), R1270 (prophylene), etc.

Please replace the paragraph beginning on page 10, line 1, with the following amended

paragraph:

Especially, isobutene-isobutane (R600a) is hydrocarbon-based, has a molecular formula

of CH (CH3)3, and is environment-friendly natural gas which does neither damage an ozone

layer nor affect a greenhouse effect, and as such it is used as a refrigerant compressed by the

reciprocating compressor of the present invention.

Birch, Stewart, Kolasch & Birch, LLP JTE/JSH/kam